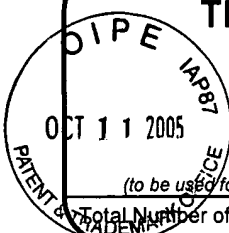
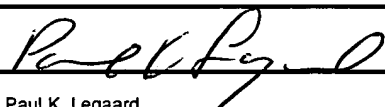
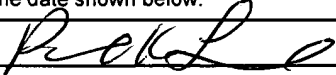


JFL

 <b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)	Application Number	10/516,505
	Filing Date	December 1, 2004
	First Named Inventor	Eric G. Marcusson
	Art Unit	Not Yet Assigned
	Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	Attorney Docket Number	ISIS0244-100 (PTS-0055USA)

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): - Table A - Statement Under 37 CFR 3.73(b) - executed Assignment - Return Postcard
<b>Remarks</b>  		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm	Cozen O'Connor, P.C.		
Signature			
Printed Name	Paul K. Legaard		
Date	6 October 2005	Reg. No.	38,534

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Signature			
Typed or printed name	Paul K. Legaard	Date	October 6, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**POWER OF ATTORNEY WITH REVOCATION AND  
CHANGE OF CORRESPONDENCE ADDRESS**

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application, and appoint

☒ Practitioners at Customer Number: **34138**

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the Correspondence Address for the above-identified application to:

☒ Practitioners at Customer Number: **34138**

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. (A statement under 37 CFR 3.73(b) is enclosed.)

Respectfully submitted,  
ISIS PHARMACEUTICALS, INC.

Date: 6/27/05

By: 

Name: Grantland E. Bryce  
Title: Vice President, Legal and General Counsel

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant, **ISIS Pharmaceuticals, Inc.**, a corporation, states that it is:

☒ the assignee of the entire right, title, and interest of the applications identified in Table A attached hereto.

The extent (by, percentage) of its ownership interest is **100%** in the patent applications identified in Table A by virtue of:

☒ a copy of the pertinent assignment from the inventor(s) of the patent applications identified in Table A is enclosed herewith.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Respectfully submitted,  
**ISIS PHARMACEUTICALS, INC.**

Date: 6/27/05

By: 

Name: Grantland E. Bryce  
Title: Vice President, Legal and General Counsel

DOCKET NO: PTS-0055USA

PATENT

## ASSIGNMENT

WHEREAS, we, Eric G. Marcusson, C. Frank Bennett, and Kenneth W. Dobie of ISIS Pharmaceuticals, Inc., have co-invented a certain invention entitled ANTISENSE MODULATION OF EXTRACELLULAR SIGNAL REGULATED KINASE-6 EXPRESSION, for which we have made an application for Letters Patent of the United States, said application being filed herewith; and

WHEREAS, ISIS Pharmaceuticals, Inc. of 2292 Faraday Avenue, Carlsbad, CA, a corporation of Delaware, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said ASSIGNEE, and other good and valuable consideration, the receipt of which is hereby acknowledged, we the said assignor(s), have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said ASSIGNEE, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other

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countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said ASSIGNEE, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said ASSIGNEE, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by each of us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will, each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said ASSIGNEE, its successors, assigns, nominees or legal representatives, and each of us agree(s) to communicate to said ASSIGNEE or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said ASSIGNEE, its successors, assigns, nominees and legal representatives to obtain and enforce for its

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or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Director of the United States Patent and Trademark Office and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said ASSIGNEE, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

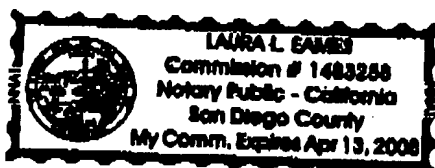
IN WITNESS WHEREOF, we have hereunto set our hand(s) and seal(s).

Dated: 10/18, 2004 Eric G. Marcusson  
Eric G. Marcusson

State of California :  
: ss.  
County of San Diego :

On this 18<sup>th</sup> day of October, 2004, before me, the undersigned, a Notary Public for the state, personally appeared Eric G. Marcusson personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal/



[Signature]  
Signature of Notary

DOCKET NO: PTS-0055USA

PATENT

Dated: 10-28, 2004C. Frank Bennett  
C. Frank Bennett

State of California :

: ss.

County of San Diego :

On this 28<sup>th</sup> day of October, 2004, before me, the undersigned, a Notary Public for the state, personally appeared C. Frank Bennett personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



WITNESS my hand and official seal/

Laura L. Eames  
Signature of NotaryDated: 10/18, 2004Kenneth W. Dobie  
Kenneth W. Dobie

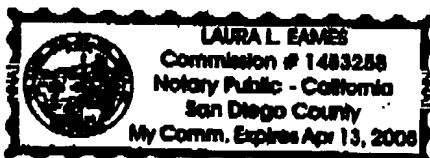
State of California :

: ss.

County of San Diego :

On this 18<sup>th</sup> day of October, 2004, before me, the undersigned, a Notary Public for the state, personally appeared Kenneth W. Dobie personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal/

Laura L. Eames  
Signature of Notary

# TABLE A

SERIAL NO.	FILING DATE	INVENTORS	EXAMINER	ART UNIT	TITLE
10/174,465	June 17, 2002	Bennett, Dobie	Terra C. Gibbs	1635	Antisense Modulation Of Extracellular-Signal-Regulated Kinase-6 Expression
10/317,248	December 10, 2002	Dobie, Sipes	Tracy Ann Vivlemore	1635	Modulation Of Mitochondrial Ribosome Protein S16 Expression
10/317,280	December 10, 2002	Dobie, Sipes	J. Schultz	1645	Modulation Of SEDL Expression
10/213,796	August 6, 2002	Bhanot, Freier	Janet L. Epps Ford	1635	Antisense Modulation Of Perilipin Expression
10/348,431	January 17, 2003	Marcusson, Bennett, Dobie	Terra C. Gibbs	1623	Extracellular-Signal-Regulated Kinase-6 Inhibitors For Inhibiting Angiogenesis
10/516,505	December 1, 2004	Marcusson, Bennett, Dobie	Not Yet Assigned	Not Yet Assigned	Antisense Modulation Of Extracellular-Signal-Regulated Kinase-6 Expression



BEST AVAILABLE COPY